

GenCore version 5.1.6  
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OW protein - protein search, using sw model

Run on: July 1, 2003, 17:50:35 ; Search time 27 Seconds

(Without alignments)  
442,434 Million cell updates/sec

Title: US-09-782-587b-1

Perfect score: 2187  
Sequence: 1 ANAFLXLRPGSLRXCKXX.....LQKMRSEPRRGLLAPFP 406

Scoring table: BLOSUM62

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued\_Patents\_AA:\*  
1: /cgn2\_6/prodata/1/1aa/5A\_COMB.pep.\*  
2: /cgn2\_6/prodata/1/1aa/5B\_COMB.pep.\*  
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4: /cgn2\_6/prodata/1/1aa/5B\_COMB.pep.\*  
5: /cgn2\_6/prodata/1/1aa/PCTUS\_COMB.pep.\*  
6: /cgn2\_6/prodata/1/1aa/backfile1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2167	99.1	406	1 US-08-295-411-5	Sequence 5, App1
2	2167	99.1	406	2 US-08-955-471-5	Sequence 5, App1
3	2167	99.1	406	5 PCT-US92-10242-5	Sequence 5, App1
4	2167	99.1	444	1 US-08-475-845-2	Sequence 2, App1
5	2167	99.1	444	2 US-08-327-690-2	Sequence 2, App1
6	2167	99.1	444	2 US-08-660-289-2	Sequence 2, App1
7	2167	99.1	444	2 US-08-537-807-2	Sequence 2, App1
8	2167	99.1	444	2 US-08-871-003-2	Sequence 2, App1
9	2167	99.1	444	3 US-08-464-233-2	Sequence 2, App1
10	2167	99.1	444	4 US-09-189-607-2	Sequence 2, App1
11	2167	99.1	444	4 US-09-378-907-2	Sequence 2, App1
12	2167	99.1	444	5 PCT-US94-05779-2	Sequence 2, App1
13	2167	99.1	466	1 US-07-882-202A-4	Sequence 4, App1
14	2167	99.1	466	1 US-08-921-615A-4	Sequence 4, App1
15	2167	99.1	466	4 US-08-321-777-4	Sequence 4, App1
16	2167	99.1	466	4 US-09-009-217-14	Sequence 14, App1
17	2167	99.1	466	4 US-09-009-656-14	Sequence 14, App1
18	2167	99.1	466	5 PCT-US93-04493-4	Sequence 4, App1
19	2160	98.8	406	1 US-08-293-778-24	Sequence 24, App1
20	1381	63.1	255	2 US-09-027-337-7	Sequence 7, App1
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22	1376	62.9	254	4 US-08-944-483-50	Sequence 50, App1
23	875	40.0	437	1 US-08-487-037-2	Sequence 2, App1
24	867	39.6	437	1 US-08-487-037-3	Sequence 3, App1
25	860.5	39.3	448	1 US-08-487-037-1	Sequence 1, App1
26	858.5	39.3	448	5 PCT-US92-10068-1	Sequence 1, App1
27	856.5	39.2	448	1 US-08-295-411-3	Sequence 3, App1

28	856.5	39.2	448	2 US-08-955-471-3	Sequence 3, App1
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31	847	38.7	461	4 US-09-053-871A-21	Sequence 21, App1
32	847	38.7	461	6 5521070-2	Sequence No. 5521070
33	844	38.6	415	1 US-08-073-531B-1	Sequence 1, App1
34	844	38.6	415	2 US-08-766-288-1	Sequence 1, App1
35	843	38.5	487	1 US-08-469-486-53	Sequence 53, App1
36	843	38.5	487	2 US-08-469-658-53	Sequence 53, App1
37	843	38.5	492	1 US-08-469-486-2	Sequence 2, App1
38	843	38.5	492	2 US-08-469-658-2	Sequence 2, App1
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40	835	38.2	415	2 US-08-955-471-2	Sequence 2, App1
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44	726	33.2	419	2 US-08-955-471-1	Sequence 1, App1
45	726	33.2	419	4 US-09-667-570A-3	Sequence 3, App1

## ALIGNMENTS

RESULT 1  
US-08-295-411-5  
Sequence 5, Application US/08295411  
Patent No. 5679639  
GENERAL INFORMATION:  
APPLICANT: Griffin, John H.  
APPLICANT: Messers, Rolf M.  
TITLE OF INVENTION: Serine Protease-Derived Polypeptides and  
TITLE OF INVENTION: Anti-Peptide Antihodies, Systems and Therapeutic Methods  
TITLE OF INVENTION: for Inhibiting Coagulation  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Office of Patent Counsel, The Scripps  
ADDRESS: Research Institute  
STREET: 10666 No. 5679639th Torrey Pines Road, TPC 8  
CITY: La Jolla  
STATE: CA  
COUNTRY: USA  
ZIP: 92037  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/295,411  
FILING DATE: 22-AUG-1994  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/793,989  
FILING DATE: 18-NOV-1991  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Fitting, Thomas  
REGISTRATION NUMBER: 34,163  
REFERENCE/DOCKET NUMBER: TSP1263.0C1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619-554-2937  
TELEFAX: 619-554-6312  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 406 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHEICAL: NO  
ANTI-SENSE: NO  
FEATURE:  
NAME/KEY: Region  
LOCATION: 1..152



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COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/10242
FILING DATE: 19921118
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,989
FILING DATE: 18-NOV-1991
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: SCRO472P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-554-2937
TELEFAX: 619-554-6312
INFORMATION FOR SEQ. ID NO. 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 406 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHEetical: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: Region
LOCATION: 1..152
OTHER INFORMATION: /note="Factor VII Light Chain"
NAME/KEY: Region
LOCATION: 153..406
OTHER INFORMATION: /note="Factor VII Heavy Chain"

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Query Match:	99.1%	Score 2167:	DB 5:	Length 400:
Best Local Similarity	97.5%	Pred. No. 2.4e-166:		
Matches 396:	Conservative	0:	Mismatches 10:	Indels C:
				Gaps 0

QY	1	ANAE LXLH RPSL KXKX CKXOC SFXXAR IIFDAX TKTLFW IYS SGGDCAS PCCQNGS	60
Db	1	ANAE LLEELR PPSL RECK KEQGS FFEAR IIFD AEKTLFW IYS SGGDCAS PCCQNGS	60
QY	61	CKDLOASTIC FCLPAFEGRNCE THKDDOLICVNENGGCEBOYCS DHGTGRSC RCHESYSL	120
Db	61	CKDLOASTIC FCLPAFEGRNCE THKDDOLICVNENGGCEBOYCS DHGTGRSC RCHESYSL	120
QY	121	LADGVSCTPYTEYPCGKIPILEKRNASRPGATIVGKVC PKGEC PMOVLLLVNGAOLCGG	180
Db	121	LADGVSCTPYTEYPCGKIPILEKRNASRPGATIVGKVC PKGEC PMOVLLLVNGAOLCGG	180
QY	181	TLITITIMVVASAHCEDKIKNNRNLLAVLGEHNLSEHDGDSRRVAOVITIPSTYVGGTNN	240
Db	181	TLITITIMVVASAHCEDKIKNNRNLLAVLGEHNLSEHDGDSRRVAOVITIPSTYVGGTNN	240
QY	241	HDIALRLRLHOPVVLTDHYVPLCLPERTSESRLLAFRFSILVSGMGLLDRGATALEMVL	300
Db	241	HDIALRLRLHOPVVLTDHYVPLCLPERTSESRLLAFRFSILVSGMGLLDRGATALEMVL	300
QY	301	NVPLRLMPODCLQOQSKKVDSPRITETMYCAGISDGSKDSCKGDGSGPHATTHYRGTYWLTG	360
Db	301	NVPLRLMPODCLQOQSKKVDSPRITETMYCAGISDGSKDSCKGDGSGPHATTHYRGTYWLTG	360
QY	361	IIVSNGGCGATVGHFGVYTVTRVSQYIEMLQKLMSEPPGVLRLRAPFP	406
Db	361	IIVSNGGCGATVGHFGVYTVTRVSQYIEMLQKLMSEPPGVLRLRAPFP	406

## RESULT 4

```

US-08-475-845-2
: Sequence 2, Application us/08475845
: Patent No. 5788965
:
: GENERAL INFORMATION:
: APPLICANT: Berkner, Kathleen L.
: APPLICANT: Petersen, Lars C.
: APPLICANT: Hart, Charles E.
: APPLICANT: Hedner, Ulla
: APPLICANT: Bregengaard, Claus
: TITLE OF INVENTION: Modified Factor VII
: NUMBER OF SEQUENCES: 4
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Townsend and Townsend Kourlie and Crew
: STREET: One Market Plaza, Steuart Street Tower
: CITY: San Francisco
: STATE: CA
: COUNTRY: U.S.A.
: ZIP: 94105-1492
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.24
:
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/475,845
: FILING DATE: 07-JUN-1995
: CLASSIFICATION: 435
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/327,690
: FILING DATE: 24-OCT-1994
: CLASSIFICATION: 435
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/065,725
: FILING DATE: 21-MAY-1993
: CLASSIFICATION: 435
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 07/662,920
: FILING DATE: 28-FEB-1991
: CLASSIFICATION: 435
:
: ATTORNEY/AGENT INFORMATION:
: NAME: Parmelee, Steven W.
: REGISTRATION NUMBER: 31,990
: REFERENCE/DOCKET NUMBER: 13952-8-4
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 206-467-9600
: TELEFAX: 415-543-5043
:
: INFORMATION FOR SEQ ID NO: 2:
:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 444 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
:
: MOLECULE TYPE: protein
:
: US-08-475-845-2

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Query Match	99.1%;	Score 2167;	DB 1;	Length 444;
Best Local Similarity	97.5%;	Pred. No. 2,6e+166;		
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			Indels	0;
			Gaps	0;
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Db	39	ANAFLELRPGESLRECKKEEQCSFEAEAREIKDAERTKLFMYSYSDGQACASSPQONGS	98	
QY	61	CKDLOSYICGCLPAFAGRNCEYTHKDDOLICVYNNNGGCEQYCSOHTGRKRCRCHEGSL	120	
Db	99	CKDLOSYICGCLPAFEBGRNCEYTHKDDOLICVYNNNGGCEQYCSOHTGRKRCRCHEGSL	158	
QY	121	LADGVSTPTVEYPCGKIPILEKRNASKPOGRIVGKVCPRGECPMOYLLLVNQAOLCGG	180	
Db	159	LADGVSTPTVEYPCGKIPILEKRNASKPOGRIVGKVCPRGECPMOYLLLVNQAOLCGG	218	
QY	181	TLTNTIIVVSAHCFDKIKMNRNLIAVLGENDLSEHGGDEDSRRVAOYIIPSTVYPGTTN	240	
Db	219	TLTNTIIVVSAHCFDKIKMNRNLIAVLGENDLSEHGGDEDSRRVAOYIIPSTVYPGTTN	278	

OY 241 HDIALRLHQPVLTDHVPPLCPERTFSERTLAFFVFSLVSGMQLDRCATALELMLV 300  
DB 279 HDIALRLHQPVLTDHVPPLCPERTFSERTLAFFVFSLVSGMQLDRCATALELMLV 338  
OY 301 NVPRMTOPCLOOSRKVGDSPNTEYMFCAVSDGSKDCKGSGGPHATHYRGTYLIG 360  
DB 339 NVPRMTOPCLOOSRKVGDSPNTEYMFCAVSDGSKDCKGSGGPHATHYRGTYLIG 398  
OY 361 IVSMGOCATVGHFGYTRVSOYIEMWLQKLMRSEPRPVLLRAPFP 406  
DB 399 IVSMGOCATVGHFGYTRVSOYIEMWLQKLMRSEPRPVLLRAPFP 444

RESULT 5  
US-08-327-690-2

Sequence 2, Application US/08327690  
Patent No. 5817788  
GENERAL INFORMATION:  
APPLICANT: Berkner, Kathleen L.  
APPLICANT: Petersen, Lars C.  
APPLICANT: Hart, Charles E.  
APPLICANT: Hedner, Ulla  
APPLICANT: Bregengaard, Claus  
TITLE OF INVENTION: Modified Factor VII  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend Kourile and Crew  
STREET: One Market Plaza, Stewart Street Tower  
CITY: San Francisco  
STATE: CA  
COUNTRY: U.S.A.  
ZIP: 94105-1492  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.24  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/327,690  
FILING DATE: 24-OCT-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/065,725  
FILING DATE: 21-MAY-1993  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/662,920  
FILING DATE: 28-FEB-1991  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Parmelee, Steven W.  
REGISTRATION NUMBER: 31,990  
REFERENCE/DOCKET NUMBER: 13952-8-3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 206-467-9600  
TELEFAX: 415-543-5043  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 444 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-327-690-2

Query Match 99.18; Score 2167; DB 2; Length 444;  
Best Local Similarity 97.58; Pred. No. 2,66-166;  
Matches 396; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

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DB 39 ANATLEELRPGSLERCKECCSFEEAREIFKDAERTKLTWISYSDGQASSPCQNGGS 98

OY 61 CKDQLOSICYFCFLPAFEGNRCETHKDDOLICVNEGCGEYCSDFHGTKRSCRCHEGYSL 120  
DB 99 CKDQLOSICYFCFLPAFEGNRCETHKDDOLICVNEGCGEYCSDFHGTKRSCRCHEGYSL 158  
OY 121 LADGVSCTPVEVPCCKIPILERKRNASKPGGRIVGKVCCKGCPQVLLVNGAOLCGG 180  
DB 159 LADGVSCTPVEVPCCKIPILERKRNASKPGGRIVGKVCCKGCPQVLLVNGAOLCGG 218  
OY 181 TLINTIMVYSAHCFPKIKMNRMLIAVLCEHDESEHDGDSRRVNOVIIPSTYVGTGN 240  
DB 219 TLINTIMVYSAHCFPKIKMNRMLIAVLCEHDESEHDGDSRRVNOVIIPSTYVGTGN 278  
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DB 279 HDIALRLHQPVLTDHVPPLCPERTFSERTLAFFVFSLVSGMQLDRCATALELMLV 338  
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DB 339 NVPRMTOPCLOOSRKVGDSPNTEYMFCAVSDGSKDCKGSGGPHATHYRGTYLIG 398  
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DB 399 IVSMGOCATVGHFGYTRVSOYIEMWLQKLMRSEPRPVLLRAPFP 444

RESULT 6  
US-08-660-289-2

Sequence 2, Application US/08660289  
Patent No. 5833982  
GENERAL INFORMATION:  
APPLICANT: Berkner, Kathleen L.  
APPLICANT: Petersen, Lars C.  
APPLICANT: Hart, Charles E.  
APPLICANT: Hedner, Ulla  
APPLICANT: Bregengaard, Claus  
TITLE OF INVENTION: Modified Factor VII  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend Kourile and Crew  
STREET: One Market Plaza, Stewart Street Tower  
CITY: San Francisco  
STATE: CA  
COUNTRY: U.S.A.  
ZIP: 94105-1492  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.24  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/660,289  
FILING DATE:  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/475,845  
FILING DATE: 07-JUN-1995  
APPLICATION NUMBER: 08/327,690  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/065,725  
FILING DATE: 21-MAY-1993  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/662,920  
FILING DATE: 28-FEB-1991  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Parmelee, Steven W.  
REGISTRATION NUMBER: 31,990  
REFERENCE/DOCKET NUMBER: 13952-8-4  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 206-467-9600  
TELEFAX: 415-543-5043



NAME: Sawistak, Deborah A  
REGISTRATION NUMBER: 37,438  
REFERENCE/DOCKET NUMBER: 90-0707  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 444 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-871-003-2

Query Match 99.1%; Score 2167; DB 2; Length 444;  
Best Local Similarity 97.5%; Pred. No. 2, 6e-166;  
Matches 396; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 ANAFLLXLRPGSLKRXKXXQCSFXAXRIFFDAXTKLFWISYSDGDCASSPCONGS 60  
DB 39 ANAFLEELRPGSLERCKEEOCSFEAREIFDAERTKLFWISYSDGDCASSPCONGS 98  
QY 61 CKDQLOSYICFCLPAFEGNCEHNDOLICVNEGCBOYCSDHGTGRSCRCHEGYSL 120  
DB 99 CKDQLOSYICFCLPAFEGNCEHNDOLICVNEGCBOYCSDHGTGRSCRCHEGYSL 158  
QY 121 LADGVSCTPTVEYPCGKIPILERKRNASKPOGRIVGKVCPCPCMPQVLLVNGAOLCGG 180  
DB 159 LADGVSCTPTVEYPCGKIPILERKRNASKPOGRIVGKVCPCPCMPQVLLVNGAOLCGG 218  
QY 181 TLINTIWWYSAAHCEPDKIKNMNRLIAVLGEHDLSEHDGEOGRRAQVILPSTYVPGTTN 240  
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DB 279 HDIALLRLHQPVLVDHVPVPLCPERTSEERTLAFVRFSLVSGWQLDRGATALELMLV 338  
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DB 339 NVPRMTODCLOOSRKVGDSPNITEYMFCAVSDGSKDSCGSGPHTHYRGTWYLTG 398  
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DB 399 IYSWGCGATVGHFGVYTRVSOYIEMLOKLMRSEPRPGVLLARAPP 444

## RESULT 9

US-08-464-233-2  
Sequence 2, Application US/08464233  
Patent No. 6039944

GENERAL INFORMATION:  
APPLICANT: Berkner, Kathleen L.  
APPLICANT: Petersen, Lars C.  
APPLICANT: Hart, Charles E.  
APPLICANT: Hedner, Ulla  
APPLICANT: Bregengaard, Claus  
TITLE OF INVENTION: Modified Factor VII  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend Kourile and Crew  
STREET: One Market Plaza, Stewart Street Tower  
CITY: San Francisco  
STATE: CA  
COUNTRY: U.S.A.  
ZIP: 94105-1492

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.24  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/464,233  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/327,690  
FILING DATE: 24-OCT-1994  
APPLICATION NUMBER: 08/065,725  
FILING DATE: 21-MAY-1993  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/662,920  
FILING DATE: 28-FEB-1991  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Parmelee, Steven W.  
REGISTRATION NUMBER: 31,990  
REFERENCE/DOCKET NUMBER: 13952-8-3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 206-467-9600  
TELEFAX: 415-543-5043  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 444 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-464-233-2

Query Match 99.1%; Score 2167; DB 3; Length 444;  
Best Local Similarity 97.5%; Pred. No. 2, 6e-166;  
Matches 396; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 ANAFLLXLRPGSLKRXKXXQCSFXAXRIFFDAXTKLFWISYSDGDCASSPCONGS 60  
DB 39 ANAFLEELRPGSLERCKEEOCSFEAREIFDAERTKLFWISYSDGDCASSPCONGS 98  
QY 61 CKDQLOSYICFCLPAFEGNCEHNDOLICVNEGCBOYCSDHGTGRSCRCHEGYSL 120  
DB 99 CKDQLOSYICFCLPAFEGNCEHNDOLICVNEGCBOYCSDHGTGRSCRCHEGYSL 158  
QY 121 LADGVSCTPTVEYPCGKIPILERKRNASKPOGRIVGKVCPCPCMPQVLLVNGAOLCGG 180  
DB 159 LADGVSCTPTVEYPCGKIPILERKRNASKPOGRIVGKVCPCPCMPQVLLVNGAOLCGG 218  
QY 181 TLINTIWWYSAAHCEPDKIKNMNRLIAVLGEHDLSEHDGEOGRRAQVILPSTYVPGTTN 240  
DB 219 TLINTIWWYSAAHCEPDKIKNMNRLIAVLGEHDLSEHDGEOGRRAQVILPSTYVPGTTN 278  
QY 241 HDIALLRLHQPVLVDHVPVPLCPERTSEERTLAFVRFSLVSGWQLDRGATALELMLV 300  
DB 279 HDIALLRLHQPVLVDHVPVPLCPERTSEERTLAFVRFSLVSGWQLDRGATALELMLV 338  
QY 301 NVPRMTODCLOOSRKVGDSPNITEYMFCAVSDGSKDSCGSGPHTHYRGTWYLTG 360  
DB 339 NVPRMTODCLOOSRKVGDSPNITEYMFCAVSDGSKDSCGSGPHTHYRGTWYLTG 398  
QY 361 IYSWGCGATVGHFGVYTRVSOYIEMLOKLMRSEPRPGVLLARAPP 406  
DB 399 IYSWGCGATVGHFGVYTRVSOYIEMLOKLMRSEPRPGVLLARAPP 444

## RESULT 10

US-09-189-607-2  
Sequence 2, Application US/09189607  
Patent No. 6168789

GENERAL INFORMATION:  
APPLICANT: Berkner, Kathleen L.  
APPLICANT: Petersen, Lars C.  
APPLICANT: Hart, Charles E.  
APPLICANT: Hedner, Ulla  
APPLICANT: Bregengaard, Claus  
TITLE OF INVENTION: Modified Factor VII  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend Kourile and Crew  
STREET: One Market Plaza, Stewart Street Tower  
CITY: San Francisco

STATE: CA  
COUNTRY: U.S.A.  
ZIP: 94105-1492  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.24  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/189,607  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/660,289  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/327,690  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/065,725  
FILING DATE: 21-MAY-1993  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/662,920  
FILING DATE: 28-FEB-1991  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Parmelee, Steven W.  
REGISTRATION NUMBER: 31,990  
REFERENCE/DOCKET NUMBER: 13952-8-4  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 206-467-9600  
TELEFAX: 415-543-5043  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 444 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-189-607-2

Query Match 99.1%; Score 2167; DB 4; Length 444;  
Best Local Similarity 97.5%; Pred. No. 2,6e-166;  
Matches 396; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 ANAFXXLRPGSLXRXKXXQCSFYXARXIFDXARTKLFWISYSDGDCASSPCONGS 60  
DB 39 ANAFLEELRPGSLERCKEQCSEFEAREIFDAERTKLFWISYSDGDCASSPCONGS 98  
QY 61 CKDQLOSYICFCLEPAEGRNCETHKDDOLICVNENGCCEQYCSDHGTGRSCRCHEGYSL 120  
DB 99 CKDQLOSYICFCLEPAEGRNCETHKDDOLICVNENGCCEQYCSDHGTGRSCRCHEGYSL 158  
QY 121 LADGVSCTPVEYPCGKIPLEKRNASKPOGRIVGKVC PKGCGCPQVLLVNGAQLCGG 180  
DB 159 LADGVSCTPVEYPCGKIPLEKRNASKPOGRIVGKVC PKGCGCPQVLLVNGAQLCGG 218  
QY 181 TLINTIWWVSAAHCFPKIKMNRLLIIVLGEHDLSEHDGDSRRVAQVILIPSTYVPGTIN 240  
DB 219 TLINTIWWVSAAHCFPKIKMNRLLIIVLGEHDLSEHDGDSRRVAQVILIPSTYVPGTIN 278  
QY 241 HDIALRLHQPVVLDHVVPLCLPERTFSERTLAFVRFSLVSGWGLDGRGATALEMLVL 300  
DB 279 HDIALRLHQPVVLDHVVPLCLPERTFSERTLAFVRFSLVSGWGLDGRGATALEMLVL 338  
QY 301 NVPRMLTQDCLQSRKVGDSPNITEWFCAGYSDGSKDSCGSGPHATHYRGTYLIG 360  
DB 339 NVPRMLTQDCLQSRKVGDSPNITEWFCAGYSDGSKDSCGSGPHATHYRGTYLIG 398  
QY 361 IVSWGCGCATVGHFGVYTRVSOYIEMLOKLMRSEPRGVLLRAFPF 406  
DB 399 IVSWGCGCATVGHFGVYTRVSOYIEMLOKLMRSEPRGVLLRAFPF 444

RESULT 11  
US-09-378-907-2  
Sequence 2, Application US/09378907  
Patent No. 6183743  
GENERAL INFORMATION:  
APPLICANT: Hart, Charles E.  
APPLICANT: Petersen, Lars C.  
APPLICANT: Hedner, Ulla  
APPLICANT: Rasmussen, Mirella E.  
TITLE OF INVENTION: Modified Factor VII  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: ZymoGenetics, Inc.  
STREET: 1201 Eastlake Avenue East  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98102  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.24  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/378,907  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/971,003  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Sawislak, Deborah A.  
REGISTRATION NUMBER: 37,438  
REFERENCE/DOCKET NUMBER: 90-07C7  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 444 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-378-907-2

Query Match 99.1%; Score 2167; DB 4; Length 444;  
Best Local Similarity 97.5%; Pred. No. 2,6e-166;  
Matches 396; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 ANAFXXLRPGSLXRXKXXQCSFYXARXIFDXARTKLFWISYSDGDCASSPCONGS 60  
DB 39 ANAFLEELRPGSLERCKEQCSEFEAREIFDAERTKLFWISYSDGDCASSPCONGS 98  
QY 61 CKDQLOSYICFCLEPAEGRNCETHKDDOLICVNENGCCEQYCSDHGTGRSCRCHEGYSL 120  
DB 99 CKDQLOSYICFCLEPAEGRNCETHKDDOLICVNENGCCEQYCSDHGTGRSCRCHEGYSL 158  
QY 121 LADGVSCTPVEYPCGKIPLEKRNASKPOGRIVGKVC PKGCGCPQVLLVNGAQLCGG 180  
DB 159 LADGVSCTPVEYPCGKIPLEKRNASKPOGRIVGKVC PKGCGCPQVLLVNGAQLCGG 218  
QY 181 TLINTIWWVSAAHCFPKIKMNRLLIIVLGEHDLSEHDGDSRRVAQVILIPSTYVPGTIN 240  
DB 219 TLINTIWWVSAAHCFPKIKMNRLLIIVLGEHDLSEHDGDSRRVAQVILIPSTYVPGTIN 278  
QY 241 HDIALRLHQPVVLDHVVPLCLPERTFSERTLAFVRFSLVSGWGLDGRGATALEMLVL 300  
DB 279 HDIALRLHQPVVLDHVVPLCLPERTFSERTLAFVRFSLVSGWGLDGRGATALEMLVL 338  
QY 301 NVPRMLTQDCLQSRKVGDSPNITEWFCAGYSDGSKDSCGSGPHATHYRGTYLIG 360  
DB 339 NVPRMLTQDCLQSRKVGDSPNITEWFCAGYSDGSKDSCGSGPHATHYRGTYLIG 398  
QY 361 IVSWGCGCATVGHFGVYTRVSOYIEMLOKLMRSEPRGVLLRAFPF 406

Db 399 IVSMGCGCATVGHFVYTRVSOYIEMLDKLMRSEPRGVLLRAPPP 444

## RESULT 12

PCT-US94-05779-2

; Sequence 2, Application PC/TUS9405779

; GENERAL INFORMATION:

; APPLICANT:

; TITLE OF INVENTION: Modified Factor VII

; NUMBER OF SEQUENCES: 4

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: IBM PC compatible

; SOFTWARE: PC-DOS/MS-DOS

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US94/05779

; FILING DATE: 23-MAY-1994

; CLASSIFICATION:

; PRIORITY INFORMATION:

; APPLICATION NUMBER: US 08/065,725

; FILING DATE: 21-MAY-1993

; PRIORITY INFORMATION DATA:

; APPLICATION NUMBER: US 07/662,920

; FILING DATE: 28-FEB-1991

; ATTORNEY/AGENT INFORMATION:

; NAME: Parmelee, Steven W.

; REGISTRATION NUMBER: 31,990

; REFERENCE/DOCKET NUMBER: 13952-8-1PC

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 206-467-9600

; TELEFAX: 415-543-5043

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 444 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

PCT-US94-05779-2

Query Match 99.1%; Score 2167; DB 5; Length 444;  
Best Local Similarity 97.5%; Pred. No. 2.6e-166;

Matches 396; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 ANAFLXLRGSLRXKXQCSFYXARXIFKDAKRTKLFMISYSGDDCASSPCONGGS 60  
Db 39 ANAFLLELRGSLERCKEKCQCFEAREIFKDAERTKLFMISYSGDDCASSPCONGGS 98  
QY 61 CKDQLOSYICFCLPAFEGRNCEETHKDDOLICVNEGGCEQYCSDHGTGRKSCHEGYSL 120  
Db 99 CKDQLOSYICFCLPAFEGRNCEETHKDDOLICVNEGGCEQYCSDHGTGRKSCHEGYSL 158  
QY 121 LADGVSCTPVEYPCGKIPILERKRNASKOGRIVGKVCPCGKCPQVLLVNGAOLCGG 180  
Db 159 LADGVSCTPVEYPCGKIPILERKRNASKOGRIVGKVCPCGKCPQVLLVNGAOLCGG 218  
QY 181 TLINTIMVYSAHCFDKIKNMRNLIVLGEHDLSEHDGDSQSRVAQVLIIPSTYYVGTGN 240  
Db 219 TLINTIMVYSAHCFDKIKNMRNLIVLGEHDLSEHDGDSQSRVAQVLIIPSTYYVGTGN 278  
QY 241 HDIALRLHQPVLVDHVPVPLCLPERTFSERTLAFAVRFSLVSGWGLDRGATALELAVL 300  
Db 279 HDIALRLHQPVLVDHVPVPLCLPERTFSERTLAFAVRFSLVSGWGLDRGATALELAVL 338  
QY 301 NVPRMLTOPCLDQSRKVGSPNTEYMFCAGYSDGSKDCKSGSPHATHTYRGTYLTG 360  
Db 339 NVPRMLTOPCLDQSRKVGSPNTEYMFCAGYSDGSKDCKSGSPHATHTYRGTYLTG 398  
QY 361 IVSMGCGCATVGHFVYTRVSOYIEMLDKLMRSEPRGVLLRAPPP 406  
Db 399 IVSMGCGCATVGHFVYTRVSOYIEMLDKLMRSEPRGVLLRAPPP 444

RESULT 13  
US-07-882-202A-4  
; Sequence 4, Application US/07882202A

; Patent No. 5374617

; GENERAL INFORMATION:

; APPLICANT: Morrissey, James H.

; APPLICANT: Comp. Philip C.

; TITLE OF INVENTION: Treatment of Bleeding with Modified

; NUMBER OF SEQUENCES: 4

; CORRESPONDENCE ADDRESS:

; ADDRESS: Richards, Medlock &amp; Andrews

; STREET: 1201 Elm Street, Suite 4500

; CITY: Dallas

; STATE: Texas

; COUNTRY: US

; ZIP: 75270-2197

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: IBM PC compatible

; SOFTWARE: PC-DOS/MS-DOS

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/07/882,202A

; FILING DATE: 13-MAY-1992

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Hansen, Eugene S.

; REGISTRATION NUMBER: 31,966

; REFERENCE/DOCKET NUMBER: OMRF B34290

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 214-939-4500

; TELEFAX: 214-939-4600

; INFORMATION FOR SEQ ID NO: 4:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 466 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-07-882-202A-4

Query Match 99.1%; Score 2167; DB 1; Length 466;  
Best Local Similarity 97.5%; Pred. No. 2.8e-166;

Matches 396; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 ANAFLXLRGSLRXKXQCSFYXARXIFKDAKRTKLFMISYSGDDCASSPCONGGS 60  
Db 61 ANAFLLELRGSLERCKEKCQCFEAREIFKDAERTKLFMISYSGDDCASSPCONGGS 120  
QY 61 CKDQLOSYICFCLPAFEGRNCEETHKDDOLICVNEGGCEQYCSDHGTGRKSCHEGYSL 120  
Db 121 CKDQLOSYICFCLPAFEGRNCEETHKDDOLICVNEGGCEQYCSDHGTGRKSCHEGYSL 180  
QY 121 LADGVSCTPVEYPCGKIPILERKRNASKOGRIVGKVCPCGKCPQVLLVNGAOLCGG 180  
Db 181 LADGVSCTPVEYPCGKIPILERKRNASKOGRIVGKVCPCGKCPQVLLVNGAOLCGG 240  
QY 181 TLINTIMVYSAHCFDKIKNMRNLIVLGEHDLSEHDGDSQSRVAQVLIIPSTYYVGTGN 240  
Db 241 TLINTIMVYSAHCFDKIKNMRNLIVLGEHDLSEHDGDSQSRVAQVLIIPSTYYVGTGN 300  
QY 241 HDIALRLHQPVLVDHVPVPLCLPERTFSERTLAFAVRFSLVSGWGLDRGATALELAVL 300  
Db 241 HDIALRLHQPVLVDHVPVPLCLPERTFSERTLAFAVRFSLVSGWGLDRGATALELAVL 360  
QY 301 NVPRMLTOPCLDQSRKVGSPNTEYMFCAGYSDGSKDCKSGSPHATHTYRGTYLTG 360  
Db 361 NVPRMLTOPCLDQSRKVGSPNTEYMFCAGYSDGSKDCKSGSPHATHTYRGTYLTG 420  
QY 361 IVSMGCGCATVGHFVYTRVSOYIEMLDKLMRSEPRGVLLRAPPP 406  
Db 421 IVSMGCGCATVGHFVYTRVSOYIEMLDKLMRSEPRGVLLRAPPP 466



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Db      301 HDIALLRLHQPVYLTIDHYVPLCLPERTSERLAFVRPSLVSQGLDRCATALEMYL 360
OY      301 NVPRMTODCLOOSRKVDSPNITEYMECAGISDGSCKDCKGSGPHATHYRGTYLIG 360
Db      361 NVPRMTODCLOOSRKVDSPNITEYMECAGISDGSCKDCKGSGPHATHYRGTYLIG 420
OY      361 IVSMGCGCATVGHFGVYTRVSQYIEMLOKLMRSEPRPGVLLRAPF 406
Db      421 IVSMGCGCATVGHFGVYTRVSQYIEMLOKLMRSEPRPGVLLRAPF 466
  
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Search completed: July 1, 2003, 17:55:08  
 Job time : 30 secs